

Jan DELAVAL Please!
Thanks!

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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Josephine YOUNG Examiner #: 79813 Date: 2/26/03
Art Unit: 1623 Phone Number 30 Serial Number: CA/44,641
Mail Box and Bldg/Room Location: 8819 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

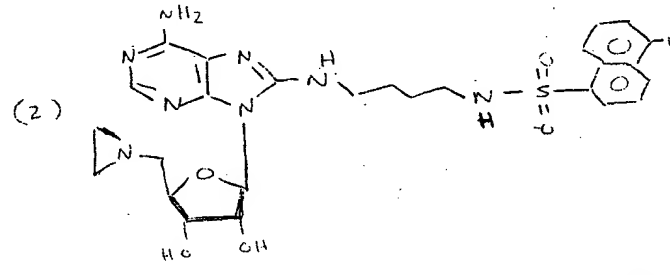
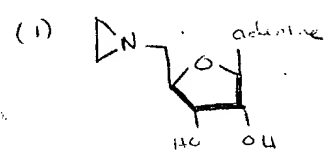
Title of Invention: Cofactors for n-thyltransferases
Inventors (please provide full names): PIGNOT, Marc; WEINHOLD, Elmar

Earliest Priority Filing Date: 07/29/1998

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Attached: 1) Pending Claims; 2) Bib Sheet; 3) Assignment Info

Please search:



(3) claim 1

Thanks!

Jan Delaval
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Type of Search	Vendors and cost where applicable
NA Sequence (#) _____	STN <u>✓</u>
AA Sequence (#) _____	Dialog _____
Structure (#) <u>✓</u>	Questel/Orbit _____
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Other _____	Other (specify) _____

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TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

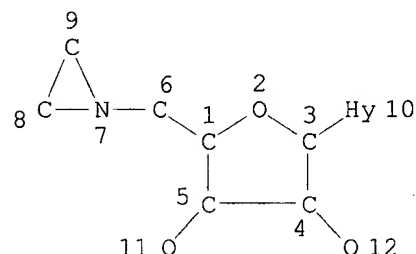
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Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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L1 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M1 N AT 10

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L3 17 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 1059 ITERATIONS
SEARCH TIME: 00.00.01

17 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 13:00:40 ON 18 MAR 2003)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 13:00:49 ON 18 MAR 2003

L1 STR
L2 1 S L1
L3 17 S L1 FUL

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SAV L3 YOUNG744/A

L4 FILE 'HCAOLD' ENTERED AT 13:02:23 ON 18 MAR 2003
0 S L3

L5 FILE 'USPATFULL, USPAT2' ENTERED AT 13:02:25 ON 18 MAR 2003
0 S L3

L6 FILE 'HCAPLUS' ENTERED AT 13:02:29 ON 18 MAR 2003
3 S L3
E PIGNOT M/AU

L7 9 S E4
E WEINHOLD E/AU

L8 27 S E3,E7,E8

L9 2 S L6 AND L7,L8

L10 3 S L6,L9

L11 29 S L7,L8 NOT L10
SEL RN L10

L12 FILE 'REGISTRY' ENTERED AT 13:03:55 ON 18 MAR 2003
48 S E1-E48

L13 31 S L12 NOT L3

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FILE LAST UPDATED: 17 Mar 2003 (20030317/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L10 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2003 ACS
AN 2002:649155 HCAPLUS
DN 137:338087
TI Expeditious synthesis of aziridine-based cofactor mimics
AU Comstock, Lindsay R.; Rajski, Scott R.
CS School of Pharmacy, University of Wisconsin-Madison, Madison, WI, 53705, USA
SO Tetrahedron (2002), 58(30), 6019-6026
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Science Ltd.
DT Journal
LA English

CC 33-9 (Carbohydrates)

AB S-Adenosyl-L-methionine mimics were synthesized in a linear fashion highlighting methodol. that bypasses the need for adenine base protection. These aziridine-based cofactor mimics are envisioned as useful biochem. tools and potential therapeutic agents whose mechanism of action hinges upon aberrant methyltransferase enzymes. Aziridination of the 5' position of adenosine was effected by convergence of suitably protected 5'-aminoadenosine with various dibromopropionates. The economy and high yields for this route to said aziridine-based cofactors is highly amenable to large-scale chem. which no doubt will be vital to their development as therapeutics and biochem. tools.

ST adenosyl methionine mimic prepn; aziridine cofactor mimic prepn; adenosine aziridination

IT Cycloaddition reaction
(aziridination; synthesis of aziridine-based cofactor mimics of nucleosides via aziridination as the key step)

IT Nucleoside analogs
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of aziridine-based cofactor mimics of nucleosides via aziridination as the key step)

IT 362-75-4 18791-02-1, 2,3-Dibromopropionyl chloride 92841-65-1 112791-04-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of aziridine-based cofactor mimics of nucleosides via aziridination as the key step)

IT 1729-67-5P 10288-11-6P 34245-48-2P 473907-68-5P 473907-69-6P
473907-70-9P 473907-71-0P 473907-72-1P
473907-77-6P 473907-78-7P 473907-79-8P 473907-80-1P
473907-81-2P 473907-82-3P 473907-83-4P
473907-84-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of aziridine-based cofactor mimics of nucleosides via aziridination as the key step)

IT 473907-73-2P 473907-74-3P 473907-75-4P
473907-76-5P 473907-85-6P 473907-86-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of aziridine-based cofactor mimics of nucleosides via aziridination as the key step)

RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

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IT 473907-70-9P 473907-71-0P 473907-72-1P
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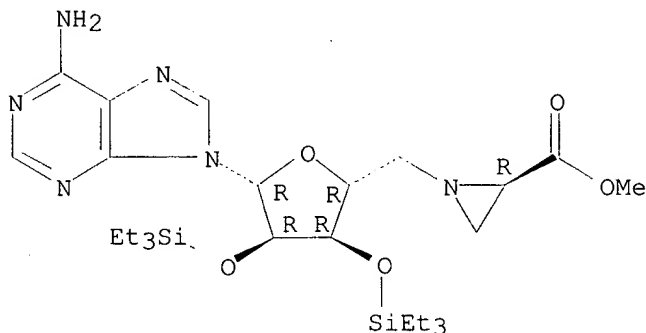
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis of aziridine-based cofactor mimics of nucleosides via aziridination as the key step)

RN 473907-70-9 HCAPLUS

CN Adenosine, 5'-deoxy-5'-[(2R)-2-(methoxycarbonyl)-1-aziridinyl]-2',3'-bis-O-(triethylsilyl)- (9CI) (CA INDEX NAME)

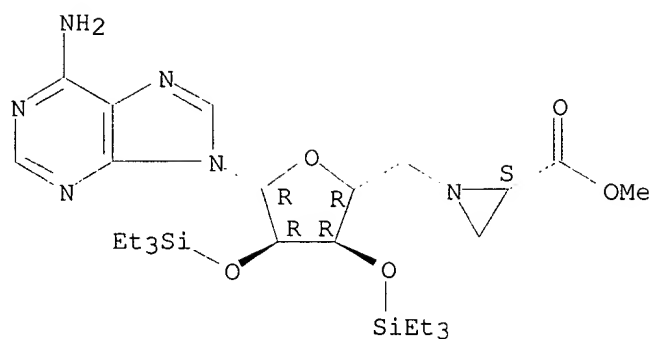
Absolute stereochemistry.



RN 473907-71-0 HCAPLUS

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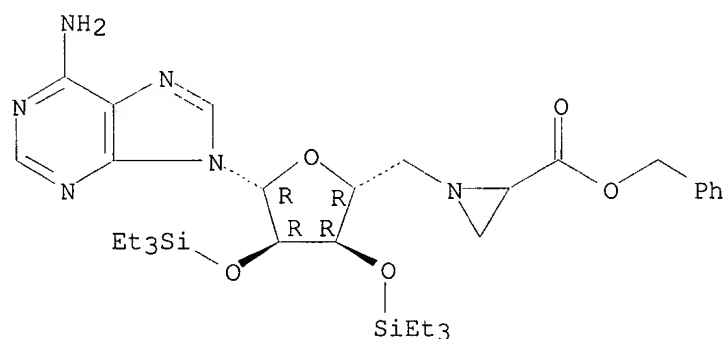
Absolute stereochemistry.



RN 473907-72-1 HCAPLUS

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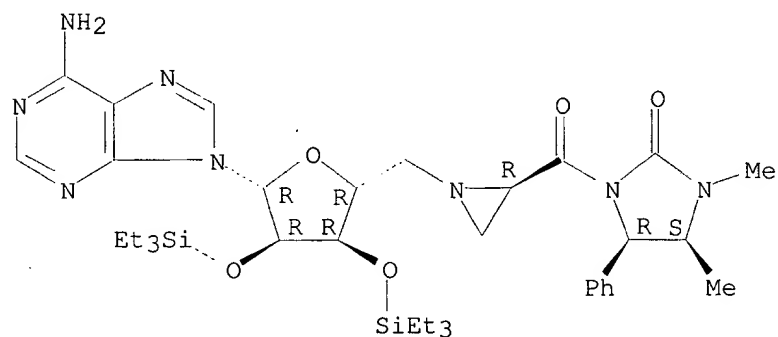
Absolute stereochemistry.



RN 473907-78-7 HCAPLUS

CN Adenosine, 5'-deoxy-5'-[(2R)-2-[[(4S,5R)-3,4-dimethyl-2-oxo-5-phenyl-1-imidazolidinyl]carbonyl]-1-aziridinyl]-2',3'-bis-O-(triethylsilyl)- (9CI) (CA INDEX NAME)

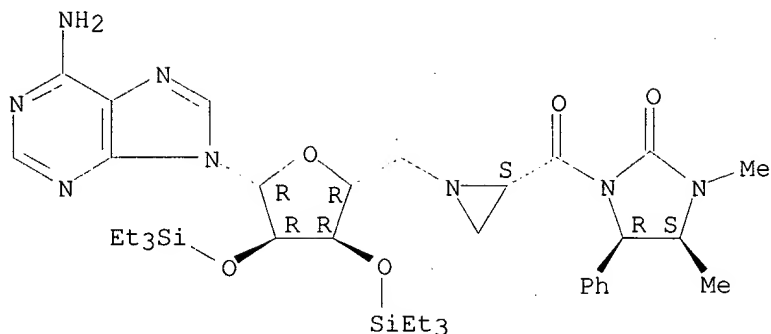
Absolute stereochemistry.



RN 473907-79-8 HCAPLUS

CN Adenosine, 5'-deoxy-5'-[(2S)-2-[[(4S,5R)-3,4-dimethyl-2-oxo-5-phenyl-1-imidazolidinyl]carbonyl]-1-aziridinyl]-2',3'-bis-O-(triethylsilyl)- (9CI) (CA INDEX NAME)

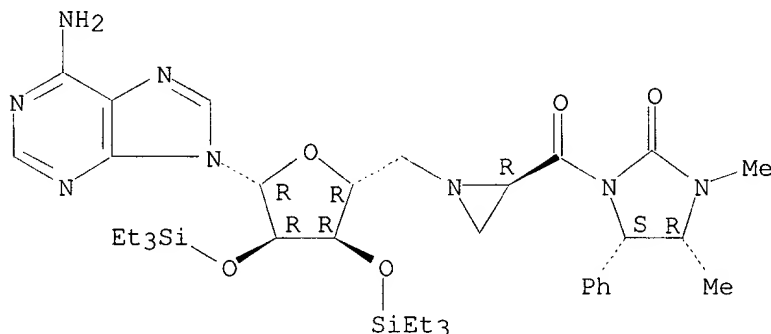
Absolute stereochemistry.



RN 473907-81-2 HCAPLUS

CN Adenosine, 5'-deoxy-5'-[(2R)-2-[[(4R,5S)-3,4-dimethyl-2-oxo-5-phenyl-1-imidazolidinyl]carbonyl]-1-aziridinyl]-2',3'-bis-O-(triethylsilyl)- (9CI)
(CA INDEX NAME)

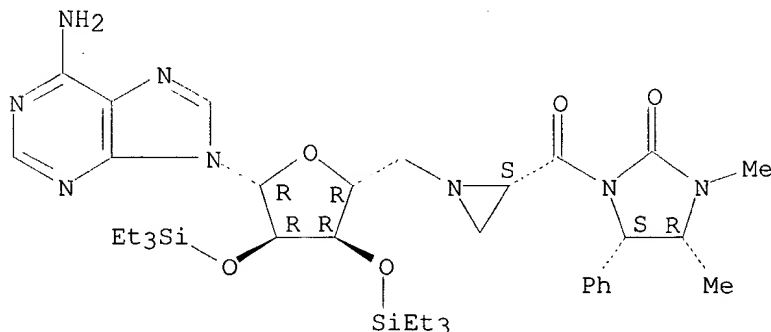
Absolute stereochemistry.



RN 473907-82-3 HCAPLUS

CN Adenosine, 5'-deoxy-5'-[(2S)-2-[[(4R,5S)-3,4-dimethyl-2-oxo-5-phenyl-1-imidazolidinyl]carbonyl]-1-aziridinyl]-2',3'-bis-O-(triethylsilyl)- (9CI)
(CA INDEX NAME)

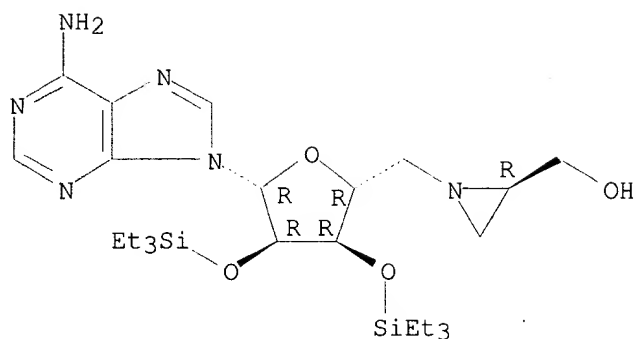
Absolute stereochemistry.



RN 473907-83-4 HCAPLUS

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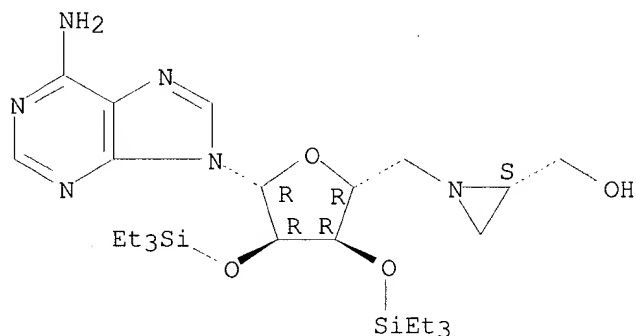
Absolute stereochemistry.



RN 473907-84-5 HCAPLUS

CN Adenosine, 5'-deoxy-5'-[(2S)-2-(hydroxymethyl)-1-aziridinyl]-2',3'-bis-O-(triethylsilyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 473907-73-2P 473907-74-3P 473907-75-4P

473907-76-5P 473907-85-6P 473907-86-7P

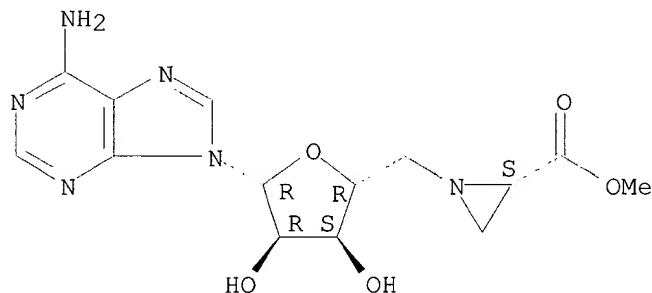
RL: SPN (Synthetic preparation); PREP (Preparation)

(synthesis of aziridine-based cofactor mimics of nucleosides via aziridination as the key step)

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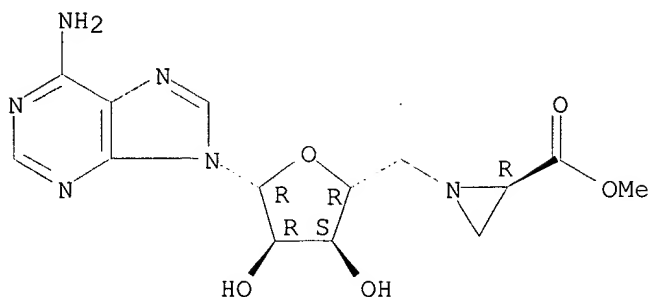
Absolute stereochemistry.



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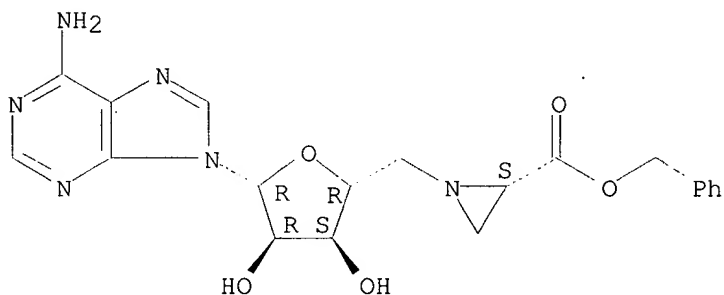
Absolute stereochemistry.



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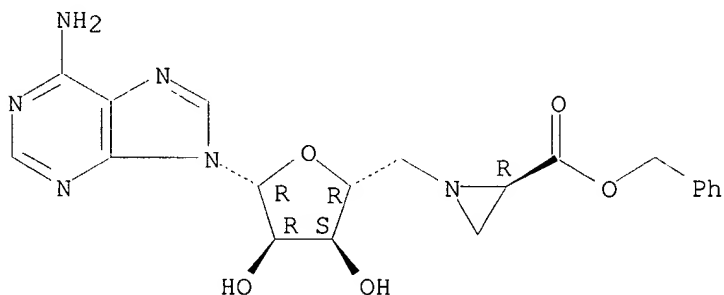
Absolute stereochemistry.



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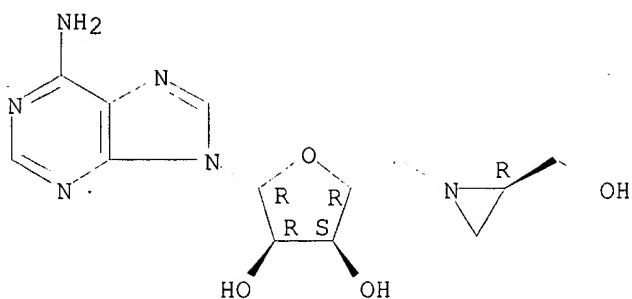
Absolute stereochemistry.



RN 473907-85-6 HCAPLUS

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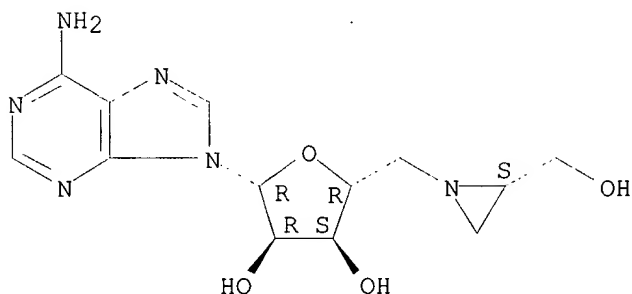
Absolute stereochemistry.



RN 473907-86-7 HCAPLUS

CN Adenosine, 5'-deoxy-5'-[(2S)-2-(hydroxymethyl)-1-aziridinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS

AN 2000:98580 HCAPLUS

DN 132:148496

TI Aziridine-containing cofactors for methyltransferases and their use in labeling of nucleic acids and proteins

IN **Pignot, Marc; Weinhold, Elmar**

PA Max-Planck-Gesellschaft Zur Forderung Der Wissenschaften E.V., Germany

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07H019-167

ICS C12Q001-68

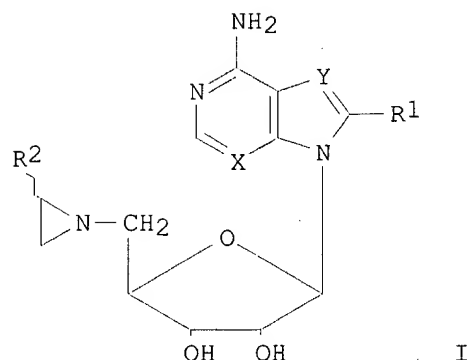
CC 7-3 (Enzymes)

Section cross-reference(s): 9

FAN.CNT 1

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PI	WO 2000006587	A1	20000210	WO 1999-EP5405	19990728
	W: CA, JP, LT, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2338721	AA	20000210	CA 1999-2338721	19990728
	EP 1102781	A1	20010530	EP 1999-938363	19990728
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002521488	T2	20020716	JP 2000-562384	19990728
PRAI	EP 1998-114201	A	19980729		
	WO 1999-EP5405	W	19990728		

OS MARPAT 132:148496
GI



- AB Aziridine derivs. [I; X=N, CH; Y=N, CR3; R1,R3=H, 3H, NH(CH2)_nNHR4, NH(C2H5O)_nC2H5NHR4; R4=fluorophore, affinity tag, crosslinking agent, peptides, etc.; n=1-5000; R2=R1, CH2CH(COOH)(NH2)] are disclosed which can be used as cofactor for S-adenosyl-L-methionine-dependent methyltransferases. I and methyltransferases may be used to label nucleic acids and proteins. Thus, I (X,Y=N; R1,R2=H) was synthesized and used to label double-stranded oligonucleotide substrates of DNA methyltransferase TaqI and HhaI.
- ST aziridine contg adenosine analog methyltransferase cofactor; protein nucleic acid labeling methyltransferase SAM analog
- IT Nucleic acids
Proteins, general, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(aziridine-contg. cofactors for methyltransferases and their use in labeling of nucleic acids and proteins)
- IT 9033-25-4, Methyltransferase 9037-42-7, DNA methyltransferase 9068-28-4, Protein methyltransferase 90698-28-5, DNA methyltransferase TaqI 91448-96-3, DNA methyltransferase HhaI
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
(aziridine-contg. cofactors for methyltransferases and their use in labeling of nucleic acids and proteins)
- IT 29908-03-ODP, analogs **219497-87-7P**
RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)
(aziridine-contg. cofactors for methyltransferases and their use in labeling of nucleic acids and proteins)
- IT 110-60-1, 1,4-Diaminobutane 124-63-0, Mesyl chloride 151-56-4, Aziridine, reactions 605-65-2, Dansyl chloride 5135-30-8, 5'-Tosyladenosine 13089-45-7, '8-Bromo-2',3'-O-isopropylidene adenosine
RL: RCT (Reactant); RACT (Reactant or reagent)
(aziridine-contg. cofactors for methyltransferases and their use in labeling of nucleic acids and proteins)
- IT 256953-64-7P 256953-65-8P 256953-66-9P 256953-67-0P **256953-68-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(aziridine-contg. cofactors for methyltransferases and their use in

labeling of nucleic acids and proteins)

IT 257901-98-7, 1: PN: WO0006587 PAGE: 9 unclaimed DNA 257901-99-8, 2: PN: WO0006587 PAGE: 9 unclaimed DNA

RL: PRP (Properties)

(unclaimed nucleotide sequence; aziridine-contg. cofactors for methyltransferases and their use in labeling of nucleic acids and proteins)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Matteucci, M; TETRAHEDRON LETT 1987, V28(22), P2469 HCAPLUS

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IT 219497-87-7P

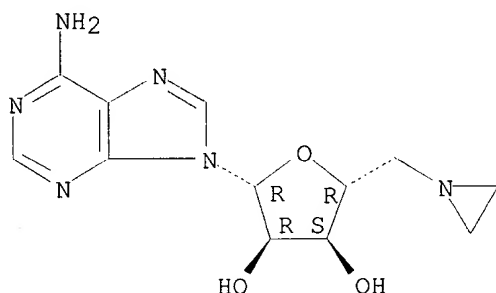
RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

(aziridine-contg. cofactors for methyltransferases and their use in labeling of nucleic acids and proteins)

RN 219497-87-7 HCAPLUS

CN Adenosine, 5'-(1-aziridinyl)-5'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 256953-68-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(aziridine-contg. cofactors for methyltransferases and their use in labeling of nucleic acids and proteins)

RN 256953-68-1 HCAPLUS

CN Adenosine, 5'-(1-aziridinyl)-5'-deoxy-8-[[4-[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl]amino]butyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 219573-72-5

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); PRP (Properties); BIOL (Biological study); FORM (Formation, nonpreparative) (coupling of a nucleoside with DNA by a methyltransferase using N-adenosylaziridine, a S-adenosyl-L-methionine analog)

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD

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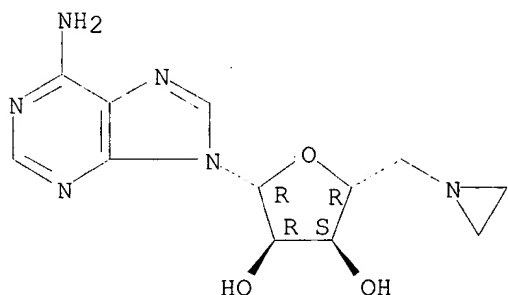
RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

(coupling of a nucleoside with DNA by a methyltransferase using N-adenosylaziridine, a S-adenosyl-L-methionine analog)

RN 219497-87-7 HCAPLUS

CN Adenosine, 5'-(1-aziridinyl)-5'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





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